

NEW SPECIES OF BAUHINIA FROM CHINA

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Bauhinia Bohniana, spec. nov.

Frutex ramis ramulisque erectis glabris, novellis dense minute fusco-pubescentibus. Folia subcoriacea, late ovato-orbicularia, 5–6 cm. longa et 5–7 cm. lata, supra cineraceo-puberula, subtus dense rufo-pubescentia, alte cordata, apice biloba lobis rotundatis tantum quartam partem laminae aequantibus, nervis 11 rufo-pubescentibus ad marginem anastomosantibus, petiolo dense adpresse tomentoso 2.5–3 cm. longo. Inflorescentiae racemosae, solitariae, ca. 7 cm. diam., pauciflorae, minute adpresse ferrugineo-tomentosae, bracteis lanceolatis acuminatis pubescentibus ca. 1 cm. longis 2 cm. latis, bracteolis similibus in apice pedicelli vel infra, pedicello et pedicellis 1.5–2 cm. longis pubescentibus; calyx tubo obconico 5 mm. longo 2.5 cm. lato dense pubescente rugoso, lobis 1.2 mm. longis 4 mm. latis lanceolatis acuminatis extus minute pubescentibus intus glabris; corolla ca. 3.5 cm. diam.; petala rosea, spatulata, ungue ca. 1 cm. longa villosa, lamina obovata obtusa ca. 15 mm. longa 13 mm. lata extus sericeo-pubescente intus glabra basi excepta; stamina fertilia 3, filamentis 3 cm. longis glabris, antheris ca. 4 mm. longis 2 mm. latis oblongis; stamina sterilia 6–7, gracilia, ad 2 cm. longa, glabra, antheris abortivis; ovarium stipitatum stipite ca. 1.2 cm. longo villoso, sutura pubescente, stylo glabro ca. 1 cm. longo, stigmatibus clavellato. Legumen ignotum.

YUNNAN: Yangtze watershed, Prefectural district of Likiang, eastern slope of Likiang Snow range, *Rock 2905*, May–Oct. 1922, (**type**, Arnold Arboretum); precise locality unknown, *Forrest 15419*, 1917–1919; Likiang, *Forrest s.n.*, May 1922; precise locality and date lacking, *Forrest 10345*; Yangtze watershed, *Rock 9045*, 1923–1924.

A species characterized by its pink flowers, their petals with a claw 1 cm. long and with an obovate obtuse villous limb about 1.5 cm. long and 1.3–1.5 cm. broad.

It is a great pleasure to dedicate this species to Dr. and Mrs. W. F. Bohn of Oberlin College who have been my special advisers and friends.

Bauhinia caterviflora, spec. nov.

Frutex scandens, ramulis inflorescentiisque ferrugineo-pubescentibus. Folia membranacea, suborbicularia, 5–8.5 cm. longa et 5.5–9 cm. lata,

emarginata sinu tantum sextam partem laminae aequante, lobis rotundatis, basi subcordata vel truncata, utrinque sparse pubescentia, nervis primariis 9 conspicuis, costa in mucronem 2 mm. longum pubescentem exeunte, utrinque reticulata, petiolo 1.5–2.5 cm. longo pubescente. Racemi 1 vel 3 ad apicem ramulorum, multiflori, pubescentes, ad apicem pedunculi interdum cirrhis pubescentibus binis 3 cm. longis instructi, bracteis caducis et bracteolis binis anguste linearibus 6–7 longis pubescentibus; calyx tubo pubescente satis crasso ad basin leviter attenuato 3 cm. longo, lobis lanceolatis acuminatis 6–7 mm. longis sub anthesi reflexis extus adpresse pubescentibus intus glabris sinu excepto; petala alba, 1.5 cm. longa et 1 cm. lata, spatulata, extus sparse pubescentia, intus glabra, lamina late obovata 13 mm. longa et 10–15 mm. lata erosa apice rotundata basi in unguem 5 mm. longum attenuata; stamina fertilia 3, filamentis 1.6 cm. longis glabris, antheris oblongis 3 mm. longis; stamina sterilia 7, minuta, 4–7 mm. longa; ovarium stipitatum, plerumque glabrum, ad basin sparse pubescens, stylo 5 mm. longo glabro, stigmatibus capitato. Legumen ellipticum, tenue, glabrum, 19–20 cm. longum, 4.2 cm. latum, integrum, seminibus multis.

YUNNAN: Szemao, S. Mt. *Henry 12344*, (**type**, Arnold Arboretum), *Henry 12344a* (fruit); Meng-tsze, *Henry 10763*; Wen-Shan Hsien, *Tsai 51659*, Jan. 25, 1933; Ping-pien Hsien, *Tsai 60496, 61050*, July 20, 1934.

A species characterized by its suborbicular leaves which are thinly pubescent on both surfaces, and its 3 cm. long calyx-tube. *Tsai 60496, 61050*, and *Henry 10763* differ from the type in having less pubescent leaves, and less prominent reticulations.

Bauhinia chalcophylla, spec. nov.

Frutex ramulis inflorescentiisque minute ferrugineo-pubescentibus. Folia subcoriacea, ovata, 9–11 cm. longa et 7–9 cm. lata, margine undulata, basi cordata, apice biloba lobis tertiam partem laminae aequantibus obtuse acutis ad acutis plerumque sese tegentibus, supra sparse puberula, subtus breviter ferrugineo-pubescentia et reticulata, nervis 11–13 conspicuis ad marginem anastomosantibus, petiolo pubescente 3–4 cm. longo. Racemi plerumque 3, terminales, multiflori, bracteolis binis in medio pedicello pubescentibus lanceolatis ca. 3 mm. longis, pedicellis 2.5–3 cm. longis; alabastra ovalia, pubescentia; calyx tubo obconico ca. 5 mm. longo, lobis lanceolatis sub anthesi reflexis 1 cm. longis 2–5 mm. latis intus glabris extus pubescentibus; petala eburnea, spatulata, obtusa, basi in unguem 4 mm. longum 9–10 mm. latum attenuata, crenata, intus glabra, extus dense adpresse pubescentia; stamina fertilia 3, filamentis glabris 3–3.2 cm. longis, antheris ignotis; stamina sterilia 7, minuta, ca. 4–7 mm. longa; ovarium stipitatum vel sessile, glabrum, stylo ca.

1.5 cm. longo, stigmatate parvo capitato. Legumen oblongum, apice abrupte acuminatum, basi attenuatum, glabrum, ligneum, ca. 15 cm. longum et 4 cm. latum, seminibus 5-7.

YUNNAN: Talang, *Henry 13240*, (N. Y. Bot. Gard.)

A species characterized by the ovate, bluntly acute or acute lobes of its leaves and its typically terminal inflorescences usually composed of three many-flowered racemes. The fruits are ligneous and entirely glabrous.

Bauhinia didyma, spec. nov.

Scandens ramulis gracilibus glabris, cirrhis parvis involutis glabris solitariis quam 1.5 cm. brevioribus. Folia membranacea, ad basin bifida, lobis inaequilateraliter obovatis 1.3-2.2 cm. longis 1-1.5 cm. latis, apice rotundata, subtus axillis basalibus nervorum breviter minute rufo-barbatis exceptis utrinque glabra, utrinque reticulata, nervis 3 conspicuis; petiolo gracili glabro 1-1.5 cm. longo. Inflorescentiae racemosae, terminales, solitariae, sparse pubescentes; flores ignotae. Legumen tenue, glabrum, laeve, lanceolatum, margine integrum, ca. 10 cm. longum et 2.5 cm. latum, apice breviter acutum, basi obtusum obliquumque, pedicellis ca. 1.2 cm. longis, seminibus multis parvis.

KWANGTUNG: Yeungchun; scandent, flower white, fruit green, *C. Wang 38777*, Nov. 16, 1935 (Oberlin College).

A species characterized by its paired leaflets which are free to the very base as in *Bauhinia binata* Blanco, and entirely glabrous except for the scanty, short, rufous pubescence at the very base on the lower surface.

Bauhinia euryantha, spec. nov.

Frutex scandens ramis ramulisque erectis angulatis pubescentibus, cirrhis pubescentibus solitariis vel binis in ramulorum nodis. Folia subcoriacea, late ovata vel ovata, 8.5-10 cm. longa et 6.5-10 cm. lata, basi alte cordata, apice biloba lobis tertiam partem laminae aequantibus acutis plerumque sese tegentibus, supra sparse pubescentia, subtus breviter ferrugineo-pubescentia, nervis 9-11 conspicuis subtus reticulatis, petiolo robusto dense brunneo-tomentoso ad 4.5 cm. longo. Racemi 3 terminales, rufo-pubescentes, bracteolis linearibus 3-4 mm. longis pubescentibus, pedicellis 2-2.8 cm. longis; calyx tubo plus minusve cylindrico 7 mm. longo, lobis anguste lanceolatis acutis ca. 7 mm. longis et 2-2.5 mm. latis subtus pubescentibus supra glabris; petala alba vel flava, spatulata, ad basim in unguem pubescentem 1-2 mm. longum attenuata, lamina ca. 8 mm. longa et 6 mm. lata intus glabra, extus margine excepta adpresse pubescente; stamina fertilia 3, filamentis gracilibus glabris ad 3 cm. longis, antheris ignotis; stamina sterilia 5,

minuta, ca. 5 mm. longa; ovarium stipitatum stipite 2 mm. longo, glabrum, stylo gracili 10 mm. longo, stigmatibus minute capitato. Legumen immaturum stipitum, oblanceolatum, glabrum.

YUNNAN: Yong Shan Hsien, in ravine, in secondary forests, a woody vine 10 m. high, *H. T. Tsai 51222*, July 27, 1932 (Fan Memorial Institute).

A species characterized by its broadly ovate to ovate leaves which are pubescent on both surfaces, and its acute lobes. It is closely allied to *B. chalcophylla* Chen, the differences being indicated in the diagnosis.

Bauhinia hainanensis Merrill & Chun in herb., spec. nov.

Scandens, ramis et ramulis inflorescentiisque erectis breviter minute rufo-tomentosis, ramis ramulisque angulatis, cirrhis robustis 3.5 cm. longis solitariis in axillis foliorum superiorum. Folia subcoriacea, orbicularia, late et plus minusve irregulariter ovata, ca. 16 cm. longa et 18 cm. lata, margine crasso leviter revoluta, basi alte cordata, apice biloba lobis rotundatis tertiam partem laminae aequantibus, supra glabra ima basi ad petiolum excepta, subtus breviter villosa-pubescentia, minute reticulata, nervis 11–13 prominentibus subtus dense pubescentibus; petiolo robusto dense pubescente ad 5.5 cm. longo. Inflorescentiae laxepaniculatae axibus secundariis racemosis, dense adpresse ferrugineo-tomentosae, bracteolis brevibus ca. 3 mm. longis, pedicellis pubescentibus 1–1.5 cm. longis, alabastris late ovalibus adpresse tomentosae; calyx tubo obconico ca. 3 mm. longo et 3 mm. lato basi attenuato pubescente, lobis ovatis breviter acutis ca. 6 mm. longis et 3 mm. latis extus tomentosae; corolla ca. 1.5 cm. diam.; petala roseo-alba, in unguem brevem ca. 1 mm. longum attenuata, lamina obtusa 8–9 mm. longa et 7 mm. lata emarginata intus basi excepta glabra extus dense pubescente; stamina fertilia 3, filamentis gracilibus glabris ca. 2.5 cm. longis, antheris oblongis 2.5 mm. latis; stamina sterilia 2, parva ca. 7 mm. longa; discus carnosus; ovarium stipitatum, glabrum, stylo ca. 5 mm. longo. Legumen ignotum.

HAINAN: Yaichow, alt. 100 ft., climbing on shrubs; flowers pinkish white, fragrant, anthers deep red, *N. K. Chun & C. L. Tso 44559*, collected in 1932 (Arnold Arboretum).

A species characterized by its terminal, rather open and erect, ferruginous-pubescent panicles, the flowers numerous, racemosely arranged in the upper half of the ultimate branches, the branches often marked with scars of fallen pedicels. The enlarged parts of the buds are ovoid or ellipsoid, slightly longer than the tube.

Bauhinia pernervosa, spec. nov.

Scandens, ramis angulatis plus minusve pubescentibus mox glabratibus.

Folia subcoriacea, orbiculari-ovata, 8–9 cm. longa et 9–10 cm. lata, basi cordata, apice biloba lobis quartam partem laminae aequantibus, supra glabra, subtus plus minusve pubescentia, nervis 11–13 subtus prominenter elevatis pubescentibus ad marginem anastomosantibus, petiolo minute sparseque pubescente 3–4 cm. raro ad 5 cm. longo. Racemi 2 terminales, breves, ferrugineo-pubescentes, multiflori, bracteis bracteolisque anguste linearibus acutis 5–7 mm. longis pubescentibus, pedicellis 1.5–1.7 cm. longis pubescentibus; calyx tubo 2 cm. longo sparse pubescente, lobis lanceolatis breviter acutis ca. 6 mm. longis extus sparse adpresse pubescentibus intus glabris ad basim glandulosis; corolla 2.5 cm. diam.; petala intus extusque glabra, ungue 2–3 mm. longo, limbo orbiculari ca. 11 mm. longo et 10 mm. lato; stamina fertilia 3, filamentis ca. 11 mm. longis glabris, antheris oblongis 3.5 mm. longis; stamina sterilia 7, minuta, ca. 4–5 mm. longa; ovarium sessile glabrum, stylo ca. 3 mm. longo, stigmate discoideo. Legumen oblongum, utrinque obtusum, tenue, glabrum, 15–20 cm. longum et 2–5 cm. latum, margine incrassato, seminibus multis.

YUNNAN: Mengtse, *Henry 10763a*, (**type**, Arnold Arboretum); *Henry 10763c*, fruiting specimen (N. Y. Bot. Gard.) and *Henry 10763a* (U. S. National Herbarium and Arnold Arboretum). These specimens are all from the same locality.

A species characterized by its leaves being orbicular-ovate, the strongly elevated nerves on the lower surface, especially prominent in old leaves. It is closely allied to *B. caterviflora* Chen, differing in its floral structure as indicated in the diagnosis.

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